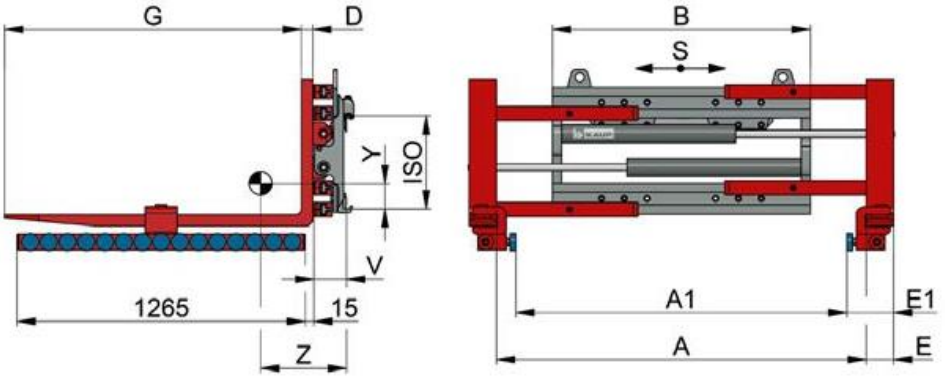









## Block & Brick Clamp T412UH

**with slip-on underslung Block & Brick Arms with mechano-hydraulic equilibration**

This clamp is primarily intended to be used in the construction industry, where picking up pallets and handling block stacks frequently alternate. The underslung Block & Brick Arms with mechano-hydraulic equilibration are suited for handling small format blocks and arms are mounted to the fork by means of bolts in a way that they can swivel. The arms can readily be dismounted by pulling out the bolts so that the clamp is ready for handling pallets.

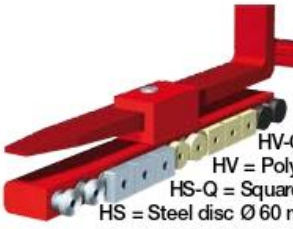
| Model | Capacity of forks kg | Capacity as clamp kg | LCD mm | S mm | A1 mm | A mm | B mm | D mm | E mm | E1 mm | G mm | ISO cl. | V mm | CofG Z mm | CofG Y mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,5T412UH | 2.300 | 1.250 | 500 | ± 100 | 140-1.320 | 320-1.500 | 970 | 45 | 120 | 210 | 1.200 | 2 | 133 | 456 | 74 | 500 |
| 2T 412UH | 2.800 | 2.000 | 500 | ± 100 | 140-1.440 | 320-1.620 | 1.130 | 50 | 120 | 210 | 1.200 | 2/3 | 143 | 432 | 89 | 564 |
| 3T 412UH | 3.600 | 2.500 | 500 | ± 100 | 80-1.380 | 260-1.560 | 1.130 | 50 | 150 | 235 | 1.200 | 3 | 152 | 406 | 113 | 679 |
| 3T 412UH | 3.600 | 2.500 | 500 | ± 100 | 80-1.580 | 260-1.760 | 1.330 | 50 | 150 | 235 | 1.200 | 3 | 152 | 397 | 117 | 698 |
| 3T 412UH | 3.600 | 2.500 | 500 | ± 100 | 80-1.710 | 260-1.890 | 1.460 | 50 | 150 | 235 | 1.200 | 3 | 152 | 391 | 120 | 710 |
| 4,5T412UH | 5.000/500* | 3.200 | 600 | ± 100 | 40-1.540 | 220-1.720 | 1.460 | 60 | 150 | 240 | 1.200 | 3 | 188 | 370 | 142 | 895 |
| 5T 412UH | 6.200 | 3.500 | 600 | ± 160 | 100-1.730 | 280-1.910 | 1.550 | 70 | 150 | 240 | 1.200 | 4 | 176 | 343 | 201 | 1.060 |

Preferential range

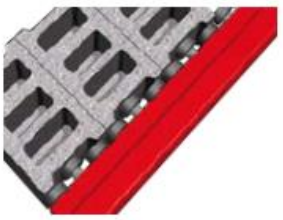
*Capacity of forks 5.000 kg at LCD 500 mm.
Also available without sideshift, model T402UH.



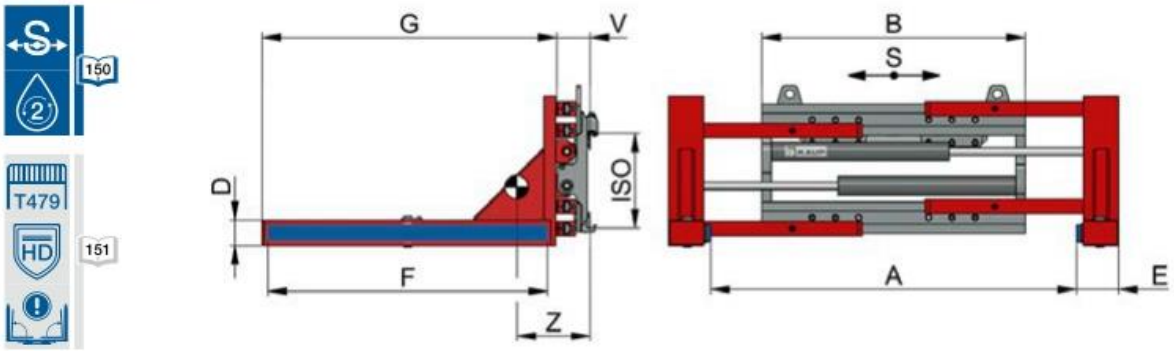
**Examples of available coatings / buffers** - the armlength depends on the number of pistons (see model T102UH on page 66):



HG = Rubber buffers Ø 75 mm
HV-Q = Square Polyurethane buffers 75 x 75 mm
HV = Polyurethane buffers Ø 75 mm
HS-Q = Square steel buffers 80 x 80 mm
HS = Steel disc Ø 60 mm



Clamping scheme for mechano-hydraulic equilibration

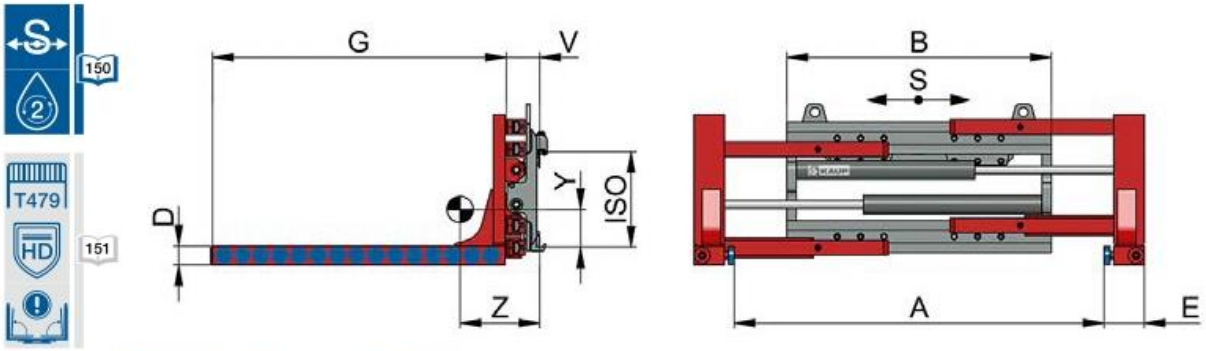



## Block Clamp T412V - with polyurethane lining and parallel compensation

Block stacks are clamped from the sides. In order to reduce pressure to the load as well as spot load on the blocks, which often have not completely dried, the arms of this type are provided with an easy-to-replace vulkollan bar suspended swivelling in the centre to compensate for dimensional variations of the load.

| Model | Capacity kg | LCD mm | S mm | A mm | B mm | D mm | E mm | F mm | G mm | ISO cl. | V mm | CofG Z mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,5T 412 V | 1.250 | 500 | ± 100 | 220-1.400 | 970 | 110 | 180 | 1.200 | 1.265 | 2 | 133 | 335 | 420 |
| 2T 412 V | 2.000 | 500 | ± 100 | 270-1.570 | 1.130 | 110 | 180 | 1.200 | 1.265 | 2/3 | 143 | 314 | 475 |
| 3T 412 V | 2.500 | 500 | ± 100 | 270-1.570 | 1.130 | 110 | 180 | 1.200 | 1.265 | 3 | 152 | 289 | 546 |
| | | | | 270-1.900 | 1.460 | | | | | | | 277 | 577 |
| 4,5T 412 V | 3.200 | 600 | ± 100 | 290-1.790 | 1.330 | 110 | 180 | 1.200 | 1.265 | 3 | 188 | 266 | 702 |
| | | | | 290-1.920 | 1.460 | | | | | | | 262 | 722 |
| 5T 412 V | 3.500 | 600 | ± 160 | 230-1.860 | 1.550 | 110 | 180 | 1.200 | 1.265 | 4 | 176 | 219 | 825 |

Preferential range Also available without sideshift, model T402V.
Variations in arm dimensions upon request.



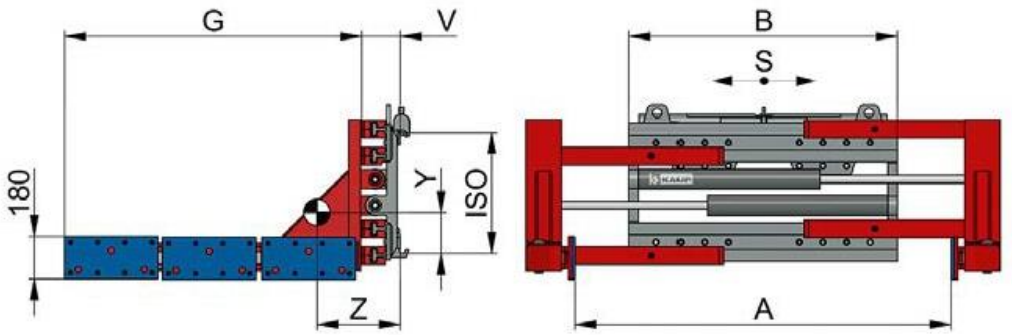

## Block & Brick Clamp T412H - with mechano-hydraulic equilibration pistons

The arm is formed as a chamber filled with grease. Small pistons, being spring-loaded for retaining in zero position, plunge into these chambers. Any dimensional variations of the load are compensated among one another by the opposite motions of the pistons. Both material and geometrical shape of the buffers can easily be adapted to the particular load and readily be replaced.

| Model | Capacity kg | LCD mm | S mm | A mm | B mm | D mm | E mm | G[1] mm | ISO cl. | V mm | CofG Z mm | CofG$_V$ Y mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,5T 412 H | 1.250 | 500 | ± 100 | 260-1.440 | 970 | 80 | 175 | 1.024 | 2 | 133 | 287 | 161 | 422 |
| 2T 412 H | 2.000 | 500 | ± 100 | 270-1.570 | 1.130 | 80 | 175 | 1.188 | 2/3 | 143 | 310 | 160 | 481 |
| | | | | | | | | 1.270 | | | 334 | 156 | 492 |
| 3T 412 H | 2.500 | 500 | ± 100 | 230-1.530 | 1.130 | 80 | 195 | 1.270 | 3 | 152 | 333 | 170 | 609 |
| | | | | 230-1.860 | 1.460 | | | | | | 323 | 173 | 636 |
| 4,5T 412 H | 3.200 | 600 | ± 100 | 240-1.740 | 1.330 | 80 | 195 | 1.270 | 3 | 188 | 297 | 187 | 770 |
| | | | | 240-1.870 | 1.460 | | | | | | 291 | 190 | 795 |
| 5T 412 H | 3.500 | 600 | ± 160 | 220-1.850 | 1.550 | 80 | 205 | 1.270 | 4 | 176 | 230 | 276 | 920 |

Preferential range Also available without sideshift, model T402H.
[1] **Fig „G" depends on the number of pistons ( )**, available arm length 942 (11), 1.024 (12), 1.106 (13), 1.188 (14), 1.270 (15)
Available with cylinder- and sideshift protection upon request.
HG = Rubber coating Ø 75, HV = Polyurethane coating Ø 75, HV-Q = Square Polyurethane buffers 75 x 75 mm,
HS = steel disc Ø 65, HS-Q = Square steel buffers 80 x 80 mm

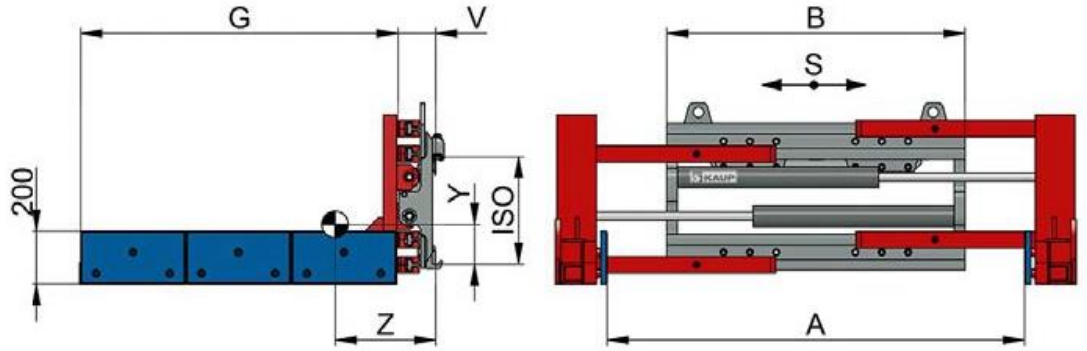





## Block Clamp T412V-3 - with mechanical equilibration plates with Vulcollan coating

| Model | Capacity kg | LCD mm | S mm | A mm | B mm | G mm | ISO cl. | V mm | CofG Z mm | CofG$_v$ Y mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2T 412 V-3 | 2.000 | 500 | ± 100 | 275 - 1.575 | 1.130 | 1.260 | 2/3 | 143 | 365 | 160 | 560 |
| 3T 412 V-3 | 2.500 | 500 | ± 100 | 295 - 1.595 | 1.130 | 1.260 | 3 | 152 | 338 | 176 | 630 |

Variations in arm dimensions upon request.
Also available without sideshift, model T402V-3.




## Block Clamp T412HP - with mechano-hydraulic equilibration plates

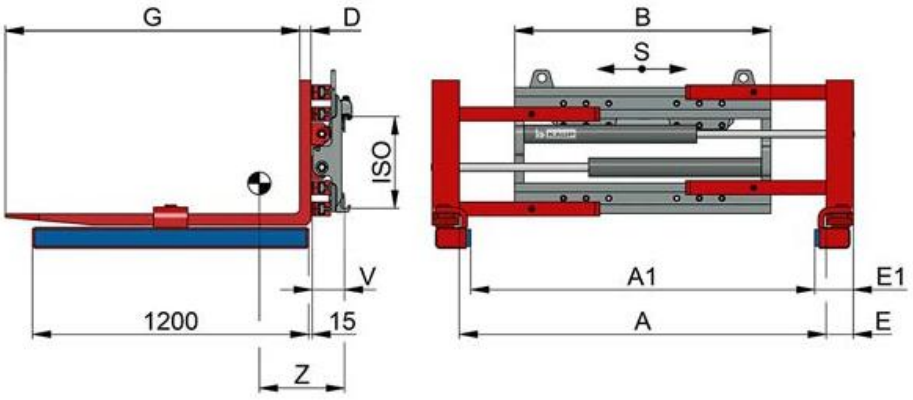
Each of the arms consists of three mechano-hydraulic equilibration plates (400 x 200 mm). Typically they are manufactured from bulb plate, thus the clamp is excellently suited for handling 400 x 200 x 200 mm blocks. Depending on the particular application, polyurethane coated contact surfaces are available.

| Model | Capacity kg | LCD mm | S mm | A mm | B mm | G mm | ISO cl. | V mm | CofG Z mm | CofG$_v$ Y mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2T 412 HP | 2.000 | 500 | ± 100 | 260-1.560 | 1.130 | 1.200 | 2/3 | 143 | 394 | 145 | 585 |
| 3T 412 HP | 2.500 | 500 | ± 100 | 280-1.580 | 1.130 | 1.200 | 3 | 152 | 373 | 152 | 633 |
| 4,5T 412 HP | 3.200 | 600 | ± 100 | 310-1.710 | 1.330 | 1.200 | 3 | 189 | 322 | 189 | 914 |
| 5T 412 HP | 3.500 | 600 | ± 160 | 200-1.800 | 1.460 | 1.200 | 4 | 178 | 287 | 248 | 1.009 |
| 5T 412 BHP | 3.900 | 600 | VSS[1)] | 300-1.600 | 1.300 | 1.200 | 4 | 211 | 285 | 293 | 1.212 |

Preferential range

Also available without sideshift - model T402HP.
[1)] VSS = Valveblock sideshift dependent on opening range (see page 13).



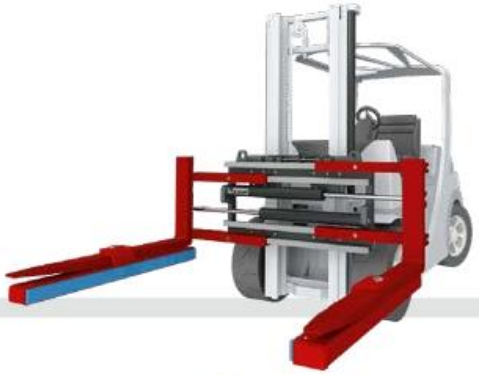

## Block Clamp T412UVP - with slip-on underslung arms - to handle building material

This clamp is primarily intended to be used in the construction industry, where picking up pallets and handling block stacks frequently alternate. Underslung Block & Brick Clamp arms are mounted to the fork by means of bolts in a way that they can swivel. The arms can readily be dismounted by pulling out the bolts so that the clamp is ready for handling pallets.

| Model | Capacity of forks kg | Capacity as clamp kg | LCD mm | S mm | A1 mm | A mm | B mm | D mm | E mm | E1 mm | G mm | ISO cl. | V mm | CofG Z mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,5T 412UVP | 2.300 | 1.250 | 500 | ±100 | 180-1.360 | 320-1.500 | 970 | 45 | 120 | 190 | 1.200 | 2 | 133 | 400 | 451 |
| 2T 412UVP | 2.800 | 2.000 | 500 | ±100 | 180-1.480 | 320-1.620 | 1.130 | 50 | 120 | 190 | 1.200 | 2/3 | 143 | 376 | 522 |
| 3T 412UVP | 3.600 | 2.500 | 500 | ±100 | 120-1.420 | 260-1.560 | 1.130 | 50 | 150 | 220 | 1.200 | 3 | 152 | 354 | 625 |
| 3T 412UVP | 3.600 | 2.500 | 500 | ±100 | 120-1.620 | 260-1.760 | 1.330 | 50 | 150 | 220 | 1.200 | 3 | 152 | 350 | 644 |
| 3T 412UVP | 3.600 | 2.500 | 500 | ±100 | 120-1.750 | 260-1.890 | 1.460 | 50 | 150 | 220 | 1.200 | 3 | 152 | 348 | 656 |
| 4,5T 412UVP | 5.000/500* | 3.200 | 600 | ±100 | 70-1.570 | 220-1.720 | 1.460 | 60 | 150 | 225 | 1.200 | 3 | 188 | 351 | 895 |
| 5T 412UVP | 6.200 | 3.500 | 600 | ±160 | 130-1.760 | 280-1.910 | 1.550 | 70 | 150 | 225 | 1.200 | 4 | 176 | 327 | 1.055 |

Preferential range

*Capacity of forks 5.000 kg at LCD 500 mm.
Also available without sideshift, model T402UVP.



T412 UVP

